Data Handling

Q1. The number of employees working in 21 offices of a building were recorded and the mean, median and mode values for the data were calculated as follows:

Mean = 10

Median = 12

Mode = 5

Fill in the blanks with the correct number based on the information given above:

- a. The average number of workers working in each office = _____.
- b. In most of the offices there are _____ employees.
- c. Ten offices have more than or equal to _____ employees.
- Q2. The following table shows the height of girls in a class:

Height (in cm)	130	145	147	150
No. of girls	6	8	4	3

Find the modal height.

Answer: _____

Q3. Find the mean of first 10 whole numbers.

Answer: _____

Q4. Find the value of x in the following data :

5, 7, x + 2, x, 9

If the mean of the data is calculated as follows:

a. If the mean is 7:

x = _____

b. If the mean is 9:

x = _____

Q5. The average distance between the home and the workplace of 16 employees of an organisation was calculated as 9 km. One employee shifted to his new home which made him travel 8 km less than before. Find the new mean distance of the employees.

Answer: _____

Q6. Find the value of 'p' in the pattern given below. Find the mean of the first five observations, if the mean of the first three observations is 6.

p, p + 2, p + 4, ____, ____, ____ p = ____ Mean of the first five observations = _____

- **Q7.** The height (in cm) of 11 students of a class are given below: 121, 124, 132, 128, 128, 125, 124, 120, 126, 133, 132 Tick the correct median height:
 - a. 126 cm
 - b. 125 cm
 - c. 125.5 cm
- Q8. The median of the observations 120, 120, 125, a + 3, a + 5, 129, 130, 132 recorded and arranged in ascending order is 127. Based on the above information, answer the questions given below:
 - a. What is the value of *a*?
 - b. What is the value of the fourth and fifth terms? Fourth term: _____, Fifth term: _____
 - c. What will be the median value, if the observation 132 is changed to 142?
 - d. What will be the median value, if the observation 125 is changed to 135?

e. What is the mode of the above data?

Q9. The percentage of income spent under various heads by a family is shown in the table below:

Expense	% of total income	
Food	40%	
Clothing	10%	
Health	10%	
Education	15%	
Miscellaneous	25%	

Draw a bar graph for the data given above and fill in the blanks:

- a. The maximum amount is spent on _____.
- b. The family spends equal amount of money on _____ and _____.
- c. If the monthly income is ₹10,000, ₹ _____ is spent on education.
- d. Miscellaneous expenses amount to ____% of the total income.

Q10. The following table gives information about the number of runs scored by Sachin in six matches.

Match	Runs Scored
1	57
2	65
3	54
4	59
5	64
6	61

Represent the information using a line graph and state true or false for the statements given below:

- a. Sachin scored more than 50 runs in all six matches.
- b. In four matches Sachin scored more than 60 runs.
- c. He scored a half century in all six matches.
- d. Total runs scored in six matches is 370.

Answers

- 1. a. 10; b. 5; c. 12
- **2.** 145 cm
- **3.** 4.5
- **4.** a. x = 6; b. x = 11
- 5. 8.5 km
- **6.** p = 4; Mean = 8
- **7.** (a)
- 8. a. 123; b. 126, 128; c. 127; d. 128.5; e. 120
- 9. a. Food; b. Clothing and health; c. ₹1500; d. 25%





